# HB 步進電機

42BYG
## STEPPING MOTOR

步距角 Step Angle ——— 1.8 Deg
絕緣電阻 Insulation Resistance ——— 500V DC 100MΩ Min
絕緣等級 Insulation Class ——— B
絕緣介電強度 Dielectric Strength ——— 500V 50Hz 1 Minute
使用溫度範圍 Ambient Temperature ——— -10~+55℃

### 技術數據: SPECIFICATIONS

| 型號 Model | 相數 No. of Phase | 電壓 Voltage | 電流 Current | 電阻 Resistance | 電感 Inductance | 最大靜轉矩 Holding Torque | 定位轉矩 Detent torque | 轉子轉動慣量 Rotor Inertia | 重量 Weight | 引線規格 Leads | 接線圖 Wdg | 外形圖 Fig |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 單位 | | V | A | Ω | mH | gcm | gcm | g.cm² | kg | | | |
| 42BYG006 | 2 | 12 | 0.8 | 15 | 19 | 1600 | <200 | 20 | 0.2 | AWG26 UL1061 | r | 2 |
| 42BYG008 | 4 | 32 | 0.38 | 17 | 13.7 | 800 | <150 | 19 | 0.2 | AWG26 UL1430 | j | 1 |
| 42BYG008G | 2 | 32 | 0.32 | 13.7 | 22.2 | 900 | <150 | 19 | 0.2 | AWG26 UL1430 | f | 1 |
| 42BYG009 | 2 | 22 | 0.6 | 7 | 6 | 1400 | <180 | 20 | 0.2 | AWG26 UL1430 | d | 3 |
| 42BYG012 | 2 | 24 | 0.52 | 9 | 11 | 1700 | <220 | 20 | 0.2 | AWG26 UL1007 | j | 2 |
| 42BYG014 | 4 | 8.4 | 0.45 | 19 | 13 | 1350 | <200 | 20 | 0.2 | AWG26 UL1007 | a | 2 |
| 42BYG015 | 4 | 12 | 0.3 | 40 | 19 | 1250 | <200 | 20 | 0.2 | AWG26 UL1007 | m | 3 |
| 42BYG016 | 4 | 12 | 0.16 | 75 | 55 | 950 | <200 | 20 | 0.2 | AWG26 UL1007 | c | 3 |
| 42BYG017 | 2 | 27 | 0.42 | 15 | 16 | 1400 | <180 | 20 | 0.2 | AWG26 UL1430 | d | 3 |
| 42BYG020 | 4 | 12 | 0.6 | 20 | 14 | 1700 | <200 | 20 | 0.2 | AWG26 UL1007 | e | 3 |
| 42BYG023 | 2 | 12 | 0.4 | 30 | 36 | 2100 | <220 | 20 | 0.2 | AWG26 UL1569 | f | 4 |
| 42BYG025 | 2 | 24 | 0.8 | 21 | 2 | 1000 | <200 | 20 | 0.2 | AWG26 UL1007 | n | 2 |
| 42BYG026 | 4 | 9.6 | 0.4 | 24 | 13 | 1100 | <200 | 20 | 0.2 | AWG26 UL1007 | a | 2 |
| 42BYG205 | 4 | 9.6 | 0.48 | 20 | 15 | 2300 | <220 | 22 | 0.24 | AWG26 UL1007 | p | 7 |
| 42BYG228 | 4 | 12 | 0.4 | 30 | 23 | 2000 | <220 | 22 | 0.24 | AWG26 UL1007 | g | 7 |
| 42BYG030 | 4 | 24 | 0.6 | 46.3 | 5 | 1200 | <200 | 20 | 0.2 | AWG26 UL1007 | h | 2 |
| 42BYG032 | 2 | 24 | 0.33 | 46.5 | 62 | 2000 | <200 | 20 | 0.2 | AWG26 UL1569 | f | 2 |
| 42BYG034 | 2 | 14 | 0.4 | 35 | 44 | 2300 | <220 | 20 | 0.2 | AWG26 UL1569 | f | 2 |
| 42BYG035 | 2 | 32 | 0.38 | 17 | 16 | 1200 | <200 | 20 | 0.2 | AWG26 UL1569 | f | 2 |
| 42BYG036 | 4 | 12.6 | 0.28 | 45 | 20 | 1300 | <220 | 20 | 0.2 | AWG26 UL1007 | o | 9 |
| 42BYG237 | 4 | 6 | 0.79 | 7.5 | 6.5 | 2000 | <220 | 22 | 0.24 | AWG26 UL1007 | m | 7 |
| 42BYG111 | 2 | 12 | 0.24 | 38 | 22 | 800 | <150 | 27 | 0.2 | AWG26 UL1007 | k | 6 |
| 42BYG121 | 2 | 12 | 0.24 | 38 | 65 | 800 | <150 | 19 | 0.2 | AWG26 UL1007 | i | 3 |
| 42BYG043 | 2 | 4 | 0.95 | 4.2 | 2.2 | 1250 | <200 | 20 | 0.2 | AWG26 UL1007 | s | 4 |
| 42BYG045 | 2 | 3.3 | 1.05 | 3.2 | 5 | 1800 | <200 | 20 | 0.2 | AWG26 UL1007 | k | 2 |
| 42BYG046 | 4 | 4 | 0.95 | 4.2 | 2.2 | 1250 | <200 | 20 | 0.2 | AWG26 UL1007 | a | 4 |
| 42BYG229 | 2 | 16.8 | 0.28 | 60 | 85 | 2000 | <220 | 22 | 0.24 | AWG26 UL1007 | f | 5 |
| 42BYG251 | 4 | 4 | 1.2 | 3.3 | 2.6 | 2050 | <220 | 22 | 0.24 | AWG26 UL1007 | a | 5 |
| 42BYG304 | 2 | 12 | 0.3 | 40 | 80 | 2800 | <260 | 30 | 0.26 | AWG26 UL1430 | t | 8 |
| 42BYG401 | 4 | 6 | 0.8 | 7.5 | 5 | 2400 | <300 | 36 | 0.29 | AWG26 UL1007 | a | 8 |

## 外型圖Figure

**Fig.1**

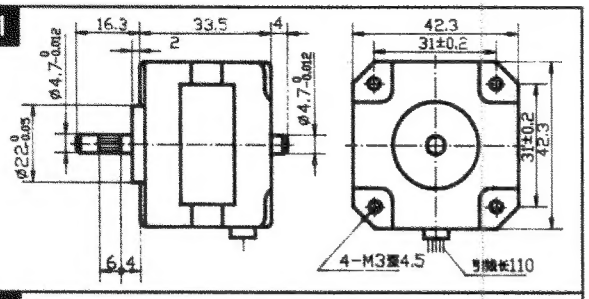
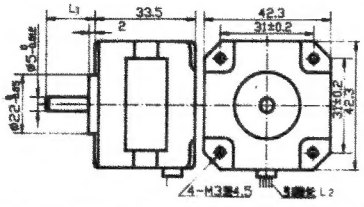
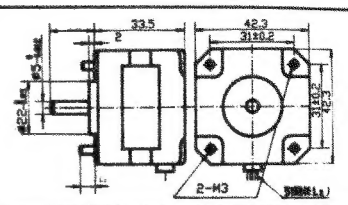



**Fig.2**



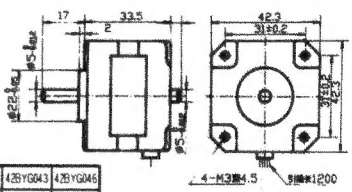

| Model | 42BYGH01X | 42BYG002 | 42BYG004 | 42BYG025 | 42BYG026 | 42BYG030 | 42BYG032 | 42BYG006 | 42BYG045 | 42BYG034 | 42BYG035 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L1 | 24 | 24 | 24 | 18 | 24 | 18 | 20 | 20 | 11.3 | 24 | 18 |
| L2 | 400 | 400 | 200 | 400 | 180 | 600 | 700 | 50 | 300 | 1200 | 400 |

**Fig.3**



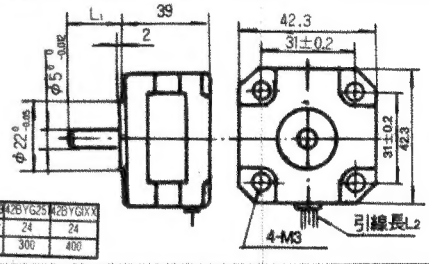

| Model | 42BYG009 | 42BYG015 | 42BYG016 | 42BYG017 | 42BYG020 | 42BYG027 | 42BYG121 |
|---|---|---|---|---|---|---|---|
| L1 | 16 | 16 | 17 | 13 | 16 | 22 | 24 |
| L2 | 130 | 500 | 400 | 250 | 400 | 300 | 200 |
| L3 | 5.5 | 10 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |

**Fig.4**




| Model | 42BYG023 | 42BYG043 | 42BYG046 |
|---|---|---|---|
| L1 | 17 | 24 | 24 |
| L2 | 17 | 10 | 10 |
| L3 | 1200 | 300 | 300 |

**Fig.5**




| Model | 42BYG229 | 42BYG25X | 42BYGXX |
|---|---|---|---|
| L1 | 24 | 24 | 24 |
| L2 | 1100 | 300 | 400 |

**Fig.6**

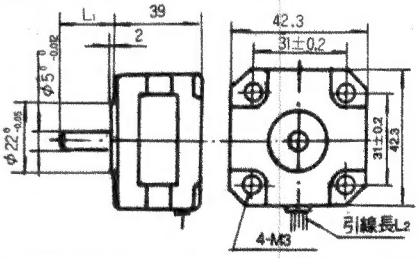
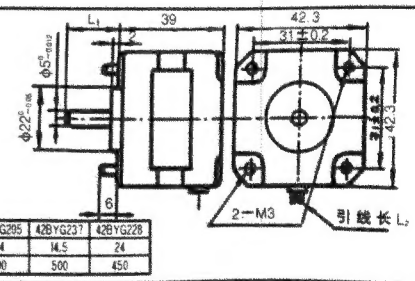
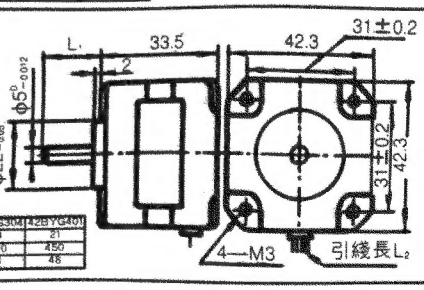



**Fig.7**



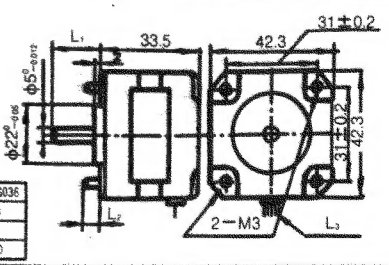

| Model | 42BYG205 | 42BYG237 | 42BYG228 |
|---|---|---|---|
| L1 | 24 | 14.5 | 24 |
| L2 | 400 | 500 | 450 |

**Fig.8**



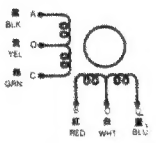

| Model | 42BYG304 | 42BYG401 |
|---|---|---|
| L1 | 26 | 21 |
| L2 | 1200 | 450 |
| L3 | 44 | 46 |

**Fig.9**

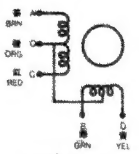



| Model | 42BYG036 |
|---|---|
| L1 | 24 |
| L2 | 6 |
| L3 | 400 |

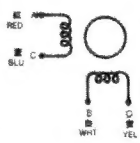
## 接綫圖 Wiring Diagram



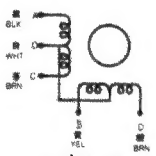

wdg. a



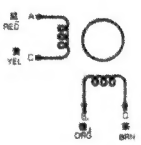

wdg. c



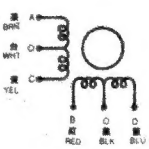

wdg. d



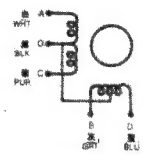

wdg. e



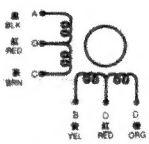

wdg. f



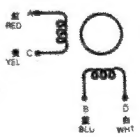

wdg. g



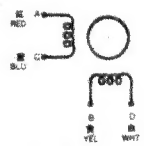

wdg. h



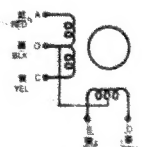

wdg. i



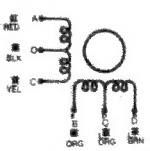

wdg. j



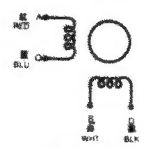

wdg. k




wdg. l




wdg. m

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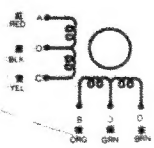


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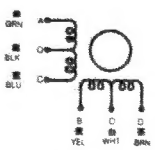


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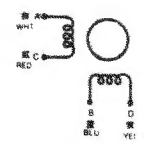


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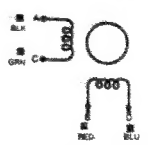
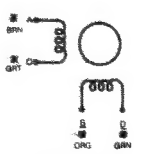



wdg. s

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